



June 2008

**DEPARTMENT OF EDUCATION**  
2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind Act*.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at [www.maine.gov/education/mea/index.htm](http://www.maine.gov/education/mea/index.htm).

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron  
Commissioner of Education



## School Report Grade 4

Test Date: March 2008  
Code: 12521731  
SAU: MSAD 58  
School: Stratton Elementary School

### Contents of the Report

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

<i>Topic</i>	<i>Page</i>
Summary of Scores .....	2
Summary of Student Participation .....	3
English Language Arts – Reading Results .....	4-6
Mathematics Results .....	7-9
Science and Technology Results .....	10-12

# SUMMARY OF SCORES

Test Date: March 2008

Grade: 4

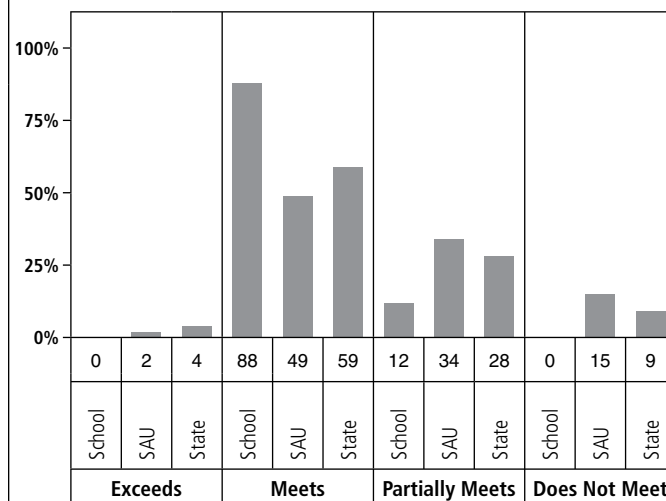
SAU: MSAD 58

School: Stratton Elementary School

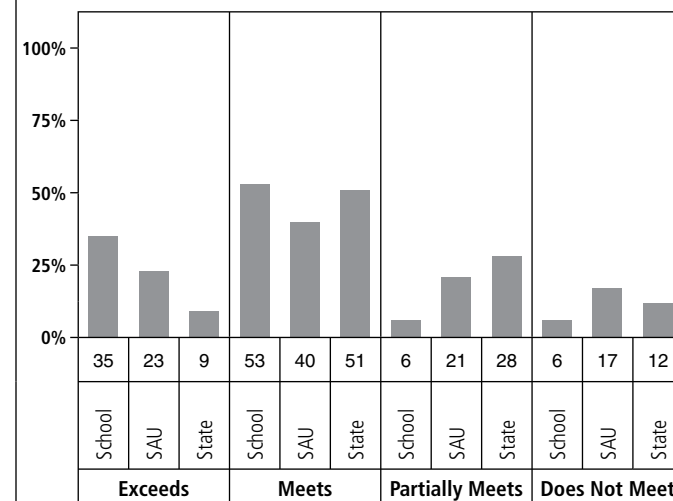
## Summary of School, SAU, and State Scores

Year	Average Scaled Score		
	School	SAU	State
<b>ELA – Reading</b>			
2005–2006	450	447	444
2006–2007	456	447	445
<b>2007–2008</b>	<b>447</b>	<b>442</b>	<b>445</b>
Cum. Avg. *	450	445	445
<b>Mathematics</b>			
2005–2006	445	449	444
2006–2007	465	454	445
<b>2007–2008</b>	<b>455</b>	<b>447</b>	<b>445</b>
Cum. Avg. *	455	450	445
<b>Science &amp; Technology</b>			
2005–2006	447	444	444
2006–2007	462	448	444
<b>2007–2008</b>	<b>451</b>	<b>442</b>	<b>444</b>
Cum. Avg. *	453	444	444

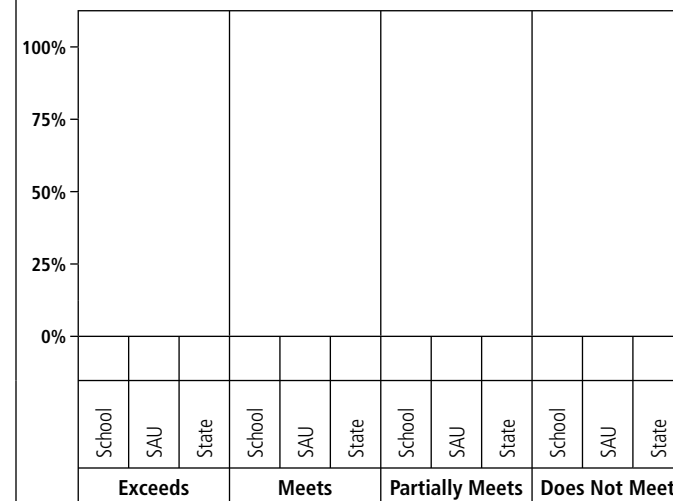
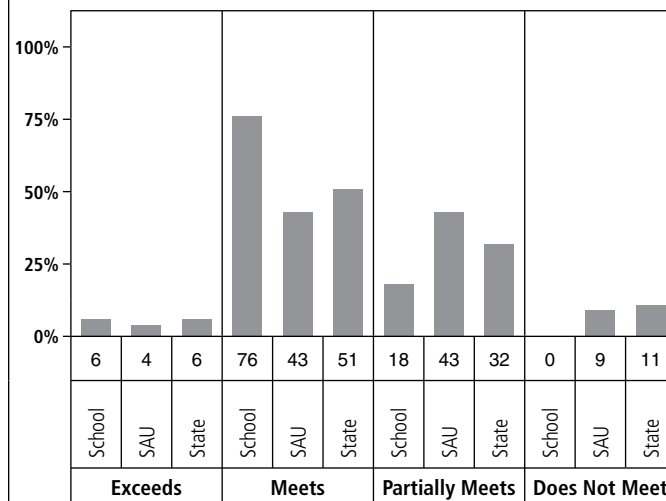
## ELA – READING



## MATHEMATICS



## SCIENCE AND TECHNOLOGY



\*Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.

# SUMMARY OF STUDENT PARTICIPATION

Test Date: March 2008  
Grade: 4  
SAU: MSAD 58  
School: Stratton Elementary School

CATEGORY OF PARTICIPATION	Enrollment <sup>1</sup> during testing window						CONTENT AREA PARTICIPATION <sup>2</sup>																											
							ELA-Reading						Mathematics						Science and Technology						School			SAU			State			
	School		SAU		State		School		SAU		State		School		SAU		State																	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%				
Total number of students	17	100	53	100	14207	100	17	100	53	100	14181	100	17	100	53	100	14123	100	17	100	53	100	14115	99										
Ethnicity African American/Black	0	0	1	2	390	3	0	0	1	100	388	99	0	0	1	100	388	99	0	0	1	100	386	99										
American Indian or Native Alaskan	0	0	0	0	101	1	0	0	0	0	101	100	0	0	0	0	101	100	0	0	0	0	101	100										
Asian or Pacific Islander	0	0	2	4	263	2	0	0	2	100	259	98	0	0	2	100	262	100	0	0	2	100	262	100										
Hispanic	0	0	0	0	170	1	0	0	0	0	168	99	0	0	0	0	166	98	0	0	0	0	166	98										
Caucasian/White	17	100	50	94	13282	93	17	100	50	100	13264	100	17	100	50	100	13205	100	17	100	50	100	13199	99										
Not Reported	0	0	0	0	1	0	0	0	0	1	100	0	0	0	0	1	100	0	0	0	0	1	100											
Identified disability	1	6	14	26	2524	18	1	100	14	100	2514	100	1	100	14	100	2498	99	1	100	14	100	2494	99										
Current LEP	0	0	1	2	385	3	0	0	1	100	377	98	0	0	1	100	383	99	0	0	1	100	380	99										
Economically disadvantaged	10	59	36	68	5587	39	10	100	36	100	5569	100	10	100	36	100	5538	99	10	100	36	100	5534	99										
Migrant	0	0	0	0	5	0	0	0	0	5	100	0	0	0	0	5	100	0	0	0	0	5	100											

MODE OF PARTICIPATION <sup>3</sup>	ELA-Reading						Mathematics						Science and Technology											
	School		SAU		State		School		SAU		State		School		SAU		State		School		SAU		State	
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%
Participation without accommodations	15	88	43	81	10755	76	15	88	43	81	10730	76	15	88	43	81	10776	76						
Identified disability (PET/IEP)	0	0	6	14	375	3	0	0	6	14	374	3	0	0	6	14	384	4						
LEP	0	0	1	2	148	1	0	0	1	2	148	1	0	0	1	2	150	1						
504 plan	0	0	0	0	114	1	0	0	0	0	114	1	0	0	0	0	115	1						
Participation with accommodations	2	12	10	19	3298	23	2	12	10	19	3267	23	2	12	10	19	3215	23						
Identified disability (PET/IEP)	1	50	8	80	2013	61	1	50	8	80	1998	61	1	50	8	80	1986	62						
LEP	0	0	0	0	225	7	0	0	0	0	233	7	0	0	0	0	229	7						
504 plan	0	0	0	0	69	2	0	0	0	0	68	2	0	0	0	0	67	2						
Other	1	50	2	20	1046	32	1	50	2	20	1023	31	1	50	2	20	987	31						
Participation through alternate assessment (PAAP)	0	0	0	0	126	1	0	0	0	0	126	1	0	0	0	0	124	1						
Identified disability (PET/IEP)	0	0	0	0	126	100	0	0	0	0	126	100	0	0	0	0	124	100						
LEP	0	0	0	0	2	2	0	0	0	0	2	2	0	0	0	0	1	1						
504 plan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Approved non-participation in reading – 1st year LEP	0	0	0	0	2	0																		
Approved non-participation – special consideration	0	0	0	0	15	0	0	0	0	0	16	0	0	0	0	0	12	0						
Non-participation – other	0	0	0	0	11	0	0	0	0	0	68	0	0	0	0	0	80	1						

1 Percents are the percentage of students enrolled in each participation category.

2 Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

3 Percents are the percentage of students in each content area by mode.

# ELA–READING RESULTS

Test Date:	March 2008
Grade:	4
SAU:	MSAD 58
School:	Stratton Elementary School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 461–480)	2005-2006	1	11	3	7	601	4
	2006-2007	1	13	2	5	507	4
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>559</b>	<b>4</b>
	Cum. Total*	2	6	6	4	1667	4
<b>Meets the Standards</b> – The student’s work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 441–460)	2005-2006	6	67	26	60	7910	57
	2006-2007	7	88	28	67	8749	63
	<b>2007-2008</b>	<b>15</b>	<b>88</b>	<b>26</b>	<b>49</b>	<b>8308</b>	<b>59</b>
	Cum. Total*	28	82	80	58	24967	60
<b>Partially Meets the Standards</b> – The student’s work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student’s ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 431–440)	2005-2006	2	22	12	28	3970	29
	2006-2007	0	0	12	29	3467	25
	<b>2007-2008</b>	<b>2</b>	<b>12</b>	<b>18</b>	<b>34</b>	<b>3922</b>	<b>28</b>
	Cum. Total*	4	12	42	30	11359	27
<b>Does Not Meet the Standards</b> – The student’s work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student’s responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 400–430)	2005-2006	0	0	2	5	1421	10
	2006-2007	0	0	0	0	1165	8
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>15</b>	<b>1264</b>	<b>9</b>
	Cum. Total*	0	0	10	7	3850	9

Learning Results Content Standard Cluster	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
<b>Total Reading Cluster</b>	<b>48</b>	<b>100</b>	32.4	67.5	27.8	57.9	29.7	61.9
<b>Literary Text</b>	<b>24</b>	<b>50</b>	17.3	72.1	14.7	61.3	15.5	64.6
<b>Informational Text</b>	<b>24</b>	<b>50</b>	15.1	62.9	13.1	54.6	14.2	59.2

The Maine *Learning Results* reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students’ reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine’s 1997 *Learning Results*, which can be found at <http://www.maine.gov/education/lsalt/gles.htm>.

# ELA-READING RESULTS

## (CONTINUED)

Test Date:	March 2008
Grade:	4
SAU:	MSAD 58
School:	Stratton Elementary School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	17	0	0	15	88	2	12	0	0	447	53	2	49	34	15	442	14053	4	59	28	9	445
<b>Ethnicity</b>																						
African American/Black	0										1						384	1	36	35	28	438
American Indian or Native Alaskan	0										0						101	1	46	44	10	442
Asian or Pacific Islander	0										2						259	6	61	22	11	445
Hispanic	0										0						164	0	45	38	16	440
Caucasian/White	17	0	0	15	88	2	12	0	0	447	50	0	48	36	16	441	13144	4	60	28	8	445
Not Reported	0										0						1					
<b>Identified disability</b>																						
Yes	1										14	7	14	29	50	437	2388	0	29	44	26	437
No	16	0	0	15	94	1	6	0	0	448	39	0	62	36	3	444	11665	5	65	25	6	446
<b>Current LEP</b>																						
Yes	0										1						373	1	32	35	32	436
No	17	0	0	15	88	2	12	0	0	447	52	2	48	35	15	442	13680	4	60	28	8	445
<b>Economically disadvantaged</b>																						
Yes	10	0	0	8	80	2	20	0	0	447	36	0	50	33	17	441	5502	1	47	37	14	441
No	7	0	0	7	100	0	0	0	0	448	17	6	47	35	12	445	8551	6	67	22	5	447
<b>Migrant</b>																						
Yes	0										0						5	0	40	60	0	445
No	17	0	0	15	88	2	12	0	0	447	53	2	49	34	15	442	14048	4	59	28	9	445
<b>Gender</b>																						
Female	9	0	0	8	89	1	11	0	0	446	17	0	41	41	18	440	6959	5	61	26	8	446
Male	8	0	0	7	88	1	13	0	0	448	36	3	53	31	14	443	7093	3	57	30	10	444
Not Reported	0										0						1					
<b>Title 1A targeted program</b>																						
Yes	5	0	0	4	80	1	20	0	0	444	7	0	57	29	14	443	1890	0	37	46	17	439
No	12	0	0	11	92	1	8	0	0	448	46	2	48	35	15	442	12163	5	63	25	8	446
<b>Gifted/talented program</b>																						
Yes	0										0						266	21	74	4	0	456
No	17	0	0	15	88	2	12	0	0	447	53	2	49	34	15	442	13787	4	59	28	9	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# ELA–READING RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade: 4

SAU: MSAD 58

School: Stratton Elementary School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	0										4	0	100	0	0	444	5	1	42	36	21	440
B. less than one hour	88	0	0	13	87	2	13	0	0	447	77	2	51	29	17	442	74	4	62	27	7	445
C. one to two hours	12	0	0	2	100	0	0	0	0	452	15	0	38	63	0	445	18	5	59	29	7	446
D. more than two hours	0										4	0	0	50	50	434	2	3	32	34	31	438
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?</b>																						
A. The questions on the test match what I have learned in reading class.	29	0	0	5	100	0	0	0	0	450	23	0	50	25	25	441	30	6	63	24	7	446
B. They match some of what I have learned.	65	0	0	9	82	2	18	0	0	445	57	0	57	30	13	442	52	4	63	27	6	446
C. They match just a little of what I have learned.	6	0	0	1	100	0	0	0	0	450	15	13	25	63	0	445	12	2	46	37	15	441
D. There is no match.	0										6	0	33	33	33	437	5	0	33	40	26	437
<b>Which of the following best describes how you rate yourself as a student in reading?</b>																						
A. very good	35	0	0	4	67	2	33	0	0	447	40	0	57	29	14	442	35	7	66	20	6	448
B. good	53	0	0	9	100	0	0	0	0	448	53	0	50	36	14	442	51	3	60	29	7	445
C. fair	12	0	0	2	100	0	0	0	0	443	8	25	0	50	25	444	12	1	44	40	16	440
D. poor	0										0						2	0	23	47	30	436
<b>How hard was the reading part of this test?</b>																						
A. harder than my regular schoolwork	41	0	0	7	100	0	0	0	0	449	25	0	54	23	23	441	19	2	46	34	17	442
B. about the same as my regular schoolwork	41	0	0	5	71	2	29	0	0	445	56	3	41	45	10	442	62	5	64	26	5	446
C. easier than my regular schoolwork	18	0	0	3	100	0	0	0	0	447	19	0	60	20	20	442	18	3	58	29	10	444
<b>How hard were the reading passages on this test?</b>																						
A. Most of the passages were more difficult than what I usually read.	12	0	0	2	100	0	0	0	0	445	13	0	43	29	29	439	14	0	32	46	22	438
B. Most of the passages were about the same as what I usually read.	53	0	0	8	89	1	11	0	0	447	54	0	39	46	14	442	52	3	62	28	7	445
C. Most of the passages were easier than what I usually read.	35	0	0	5	83	1	17	0	0	448	33	0	71	18	12	443	33	7	68	20	5	448
<b>How much time do you spend reading at home each day?</b>																						
A. more than one hour	0										11	0	50	50	0	443	18	7	64	22	7	447
B. 20 minutes to an hour	82	0	0	12	86	2	14	0	0	447	51	4	48	33	15	444	55	4	64	26	6	446
C. less than 20 minutes	6	0	0	1	100	0	0	0	0	444	17	0	67	22	11	441	14	2	53	33	12	443
D. I rarely read at home.	12	0	0	2	100	0	0	0	0	447	21	0	36	36	27	438	13	1	44	39	16	441
<b>How many pages do you read in school and to complete homework assignments?</b>																						
A. five or fewer pages	6	0	0	1	100	0	0	0	0	454	29	0	33	40	27	439	23	3	50	34	13	442
B. six to ten pages	47	0	0	7	88	1	13	0	0	445	29	0	47	47	7	442	25	3	60	29	8	444
C. eleven or more pages	47	0	0	7	88	1	13	0	0	449	41	5	67	19	10	445	52	5	64	24	6	446
<b>Optional school/SAU question</b>																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

# MATHEMATICS RESULTS

Test Date: March 2008  
Grade: 4  
SAU: MSAD 58  
School: Stratton Elementary School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 461–480)	2005-2006	1	11	8	18	1294	9
	2006-2007	4	50	10	24	1054	8
	<b>2007-2008</b>	<b>6</b>	<b>35</b>	<b>12</b>	<b>23</b>	<b>1321</b>	<b>9</b>
	Cum. Total*	11	32	30	22	3669	9
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student’s work may contain minor errors. (scaled score 441–460)	2005-2006	5	56	25	57	7000	50
	2006-2007	4	50	25	60	7394	53
	<b>2007-2008</b>	<b>9</b>	<b>53</b>	<b>21</b>	<b>40</b>	<b>7079</b>	<b>51</b>
	Cum. Total*	18	53	71	51	21473	51
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 429–440)	2005-2006	2	22	5	11	3784	27
	2006-2007	0	0	5	12	3729	27
	<b>2007-2008</b>	<b>1</b>	<b>6</b>	<b>11</b>	<b>21</b>	<b>3955</b>	<b>28</b>
	Cum. Total*	3	9	21	15	11468	27
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 400–428)	2005-2006	1	11	6	14	1894	14
	2006-2007	0	0	2	5	1735	12
	<b>2007-2008</b>	<b>1</b>	<b>6</b>	<b>9</b>	<b>17</b>	<b>1642</b>	<b>12</b>
	Cum. Total*	2	6	17	12	5271	13

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	15	31	11.5	76.7	9.9	66.0	9.5	63.3
Cluster 2: Shape and Size	14	29	10.1	72.1	9.0	64.3	9.1	65.0
Cluster 3: Mathematical Decision Making	5	10	4.3	86.0	3.3	66.0	3.4	68.0
Cluster 4: Patterns	14	29	11.5	82.1	10.0	71.4	9.7	69.3

- Cluster 1: Numbers and Operations**  
A. Numbers and Number Sense  
B. Computation  
I. Discrete Mathematics (grades 3 and 4 only)
- Cluster 2: Shape and Size**  
E. Geometry  
F. Measurement
- Cluster 3: Mathematical Decision Making**  
C. Data Analysis and Statistics  
D. Probability
- Cluster 4: Patterns**  
G. Patterns, Relations, and Functions  
H. Algebra Concepts  
K. Mathematical Communication

Each content standard in the clusters above is defined in Maine’s 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at <http://www.maine.gov/education/lslalt/gles.htm>.

# MATHEMATICS RESULTS

## (CONTINUED)

Test Date:	March 2008
Grade:	4
SAU:	MSAD 58
School:	Stratton Elementary School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	17	6	35	9	53	1	6	1	6	455	53	23	40	21	17	447	13997	9	51	28	12	445
<b>Ethnicity</b>																						
African American/Black	0										1						386	4	26	34	36	434
American Indian or Native Alaskan	0										0						101	3	46	41	11	442
Asian or Pacific Islander	0										2						262	14	51	23	12	447
Hispanic	0										0						162	4	41	34	21	440
Caucasian/White	17	6	35	9	53	1	6	1	6	455	50	18	42	22	18	445	13085	10	51	28	11	446
Not Reported	0										0						1					
<b>Identified disability</b>																						
Yes	1										14	21	29	29	21	445	2372	3	31	36	30	436
No	16	6	38	9	56	1	6	0	0	457	39	23	44	18	15	447	11625	11	54	27	8	447
<b>Current LEP</b>																						
Yes	0										1						381	4	33	28	35	435
No	17	6	35	9	53	1	6	1	6	455	52	21	40	21	17	446	13616	10	51	28	11	445
<b>Economically disadvantaged</b>																						
Yes	10	4	40	4	40	1	10	1	10	454	36	22	36	22	19	446	5472	5	41	35	19	440
No	7	2	29	5	71	0	0	0	0	457	17	24	47	18	12	447	8525	13	56	24	7	448
<b>Migrant</b>																						
Yes	0										0						5	0	80	20	0	448
No	17	6	35	9	53	1	6	1	6	455	53	23	40	21	17	447	13992	9	51	28	12	445
<b>Gender</b>																						
Female	9	4	44	5	56	0	0	0	0	459	17	24	29	24	24	444	6933	9	50	29	12	445
Male	8	2	25	4	50	1	13	1	13	451	36	22	44	19	14	448	7063	10	51	27	11	446
Not Reported	0										0						1					
<b>Title 1A targeted program</b>																						
Yes	5	1	20	4	80	0	0	0	0	454	7	14	57	14	14	447	1890	2	34	41	23	438
No	12	5	42	5	42	1	8	1	8	455	46	24	37	22	17	447	12107	11	53	26	10	446
<b>Gifted/talented program</b>																						
Yes	0										0						266	45	49	5	0	461
No	17	6	35	9	53	1	6	1	6	455	53	23	40	21	17	447	13731	9	51	29	12	445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number



# MATHEMATICS RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008  
 Grade: 4  
 SAU: MSAD 58  
 School: Stratton Elementary School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	0										4	0	50	0	50	432	5	6	34	33	27	438
B. less than one hour	88	6	40	8	53	0	0	1	7	456	77	29	34	20	17	449	74	10	52	28	10	446
C. one to two hours	12	0	0	1	50	1	50	0	0	446	15	0	75	13	13	443	18	10	52	28	10	446
D. more than two hours	0										4	0	0	100	0	438	2	5	33	28	34	436
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?</b>																						
A. The questions on the test match what I have learned in mathematics class.	65	4	36	7	64	0	0	0	0	457	47	28	40	24	8	450	38	13	56	23	8	448
B. They match some of what I have learned.	35	2	33	2	33	1	17	1	17	451	38	25	45	15	15	449	48	8	52	29	10	445
C. They match just a little of what I have learned.	0										8	0	25	50	25	438	10	4	35	39	22	439
D. There is no match.	0										8	0	25	0	75	427	4	2	25	33	40	433
<b>Which of the following best describes how you rate yourself as a student in mathematics?</b>																						
A. very good	12	1	50	1	50	0	0	0	0	460	34	22	50	17	11	449	35	16	55	20	8	449
B. good	65	5	45	4	36	1	9	1	9	456	55	28	31	24	17	448	48	7	52	31	11	445
C. fair	24	0	0	4	100	0	0	0	0	451	8	0	50	25	25	436	14	3	41	38	18	440
D. poor	0										4	0	50	0	50	434	3	1	29	36	34	435
<b>How hard was the mathematics part of this test?</b>																						
A. harder than my regular schoolwork	24	1	25	2	50	1	25	0	0	454	12	0	17	50	33	432	15	4	38	33	25	439
B. about the same as my regular schoolwork	53	3	33	5	56	0	0	1	11	455	71	27	43	16	14	450	64	10	54	28	9	446
C. easier than my regular schoolwork	24	2	50	2	50	0	0	0	0	458	17	22	44	22	11	447	21	13	52	24	11	447
<b>How often do you use hands-on materials in mathematics class?</b>																						
A. almost every day	12	1	50	1	50	0	0	0	0	459	17	33	22	11	33	443	23	8	47	29	16	443
B. two or three days a week	59	4	40	4	40	1	10	1	10	455	15	13	38	38	13	446	36	11	54	27	9	447
C. two or three times each month	6	0	0	1	100	0	0	0	0	446	40	14	57	19	10	448	25	10	53	27	10	446
D. never or almost never	24	1	25	3	75	0	0	0	0	456	28	33	27	20	20	447	16	9	46	32	13	444
<b>How often do you use calculators in mathematics class?</b>																						
A. almost every day	0										0						5	3	30	33	33	436
B. two or three days a week	6	0	0	1	100	0	0	0	0	452	15	13	50	25	13	446	19	8	50	30	12	445
C. two or three times each month	47	2	25	5	63	1	13	0	0	454	13	0	71	29	0	445	38	11	55	26	8	447
D. never or almost never	47	4	50	3	38	0	0	1	13	457	72	29	32	18	21	447	38	9	50	29	12	445
<b>On average, how many minutes a day do you spend working on mathematics in class?</b>																						
A. less than 30 minutes	13	0	0	2	100	0	0	0	0	449	11	17	50	0	33	442	8	3	33	38	25	438
B. 30–45 minutes	6	0	0	1	100	0	0	0	0	454	21	36	27	27	9	448	27	6	48	33	13	443
C. 45–60 minutes	38	2	33	3	50	0	0	1	17	453	49	8	46	27	19	444	38	11	54	26	9	447
D. more than 60 minutes	44	3	43	3	43	1	14	0	0	457	19	50	30	10	10	456	26	13	55	23	9	448
<b>Optional school/SAU question</b>																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

# SCIENCE AND TECHNOLOGY RESULTS

Test Date:	March 2008
Grade:	4
SAU:	MSAD 58
School:	Stratton Elementary School

ACHIEVEMENT LEVEL DEFINITIONS		STUDENTS AT EACH ACHIEVEMENT LEVEL					
		School		SAU		State	
		N	%	N	%	N	%
<b>Exceeds the Standards</b> – The student’s work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student’s responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 461–480)	2005-2006	0	0	1	2	751	5
	2006-2007	5	63	6	14	963	7
	<b>2007-2008</b>	<b>1</b>	<b>6</b>	<b>2</b>	<b>4</b>	<b>882</b>	<b>6</b>
	Cum. Total*	6	18	9	6	2596	6
<b>Meets the Standards</b> – The student’s work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student’s responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 441–460)	2005-2006	7	78	30	68	7251	52
	2006-2007	3	38	22	52	6824	49
	<b>2007-2008</b>	<b>13</b>	<b>76</b>	<b>23</b>	<b>43</b>	<b>7130</b>	<b>51</b>
	Cum. Total*	23	68	75	54	21205	51
<b>Partially Meets the Standards</b> – The student’s work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student’s responses demonstrate some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent. Explanation of concepts may be incomplete or unclear. (scaled score 429–440)	2005-2006	1	11	10	23	4514	32
	2006-2007	0	0	11	26	4382	32
	<b>2007-2008</b>	<b>3</b>	<b>18</b>	<b>23</b>	<b>43</b>	<b>4433</b>	<b>32</b>
	Cum. Total*	4	12	44	32	13329	32
<b>Does Not Meet the Standards</b> – The student’s work demonstrates limited understanding of essential concepts in science and infrequent or inaccurate connections among central ideas. The student’s responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and explanations are illogical, incomplete, or missing. (scaled score 400–428)	2005-2006	1	11	3	7	1458	10
	2006-2007	0	0	3	7	1735	12
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>9</b>	<b>1546</b>	<b>11</b>
	Cum. Total*	1	3	11	8	4739	11

Learning Results Content Standard Clusters	Number of Points Possible		Average Points Attained (Number and Percent)					
			School		SAU		State	
	N	%	N	%	N	%	N	%
Cluster 1: Life Sciences	12	25	8.9	74.2	7.2	60.0	8.0	66.7
Cluster 2: Physical Sciences	12	25	7.9	65.8	6.9	57.5	7.2	60.0
Cluster 3: Earth and Space Sciences	12	25	8.9	74.2	7.8	65.0	7.4	61.7
Cluster 4: Nature and Implications of Science	12	25	8.8	73.3	7.4	61.7	7.6	63.3

## Cluster 1: Life Sciences

- A. Classifying Life Forms
- B. Ecology
- C. Cells

## Cluster 2: Physical Sciences

- E. Structure of Matter
- H. Energy
- I. Motion

## Cluster 3: Earth and Space Sciences

- D. Continuity and Change
- F. The Earth
- G. The Universe

## Cluster 4: Nature and Implications of Science

- J. Inquiry and Problem Solving
- K. Scientific Reasoning
- L. Communication
- M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine’s 1997 *Learning Results*, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at <http://www.maine.gov/education/lslat/gles.htm>.

# SCIENCE AND TECHNOLOGY RESULTS

(CONTINUED)

Test Date: March 2008  
 Grade: 4  
 SAU: MSAD 58  
 School: Stratton Elementary School

REPORTING CATEGORIES	School										SAU						State					
	Tested	E		M		P		D		Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score	Tested	E	M	P	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%		N	%	%	%	%		N	%	%	%	%	
<b>All Students</b>	17	1	6	13	76	3	18	0	0	451	53	4	43	43	9	442	13991	6	51	32	11	444
<b>Ethnicity</b>																						
African American/Black	0										1						385	2	27	35	36	434
American Indian or Native Alaskan	0										0						101	3	44	44	10	441
Asian or Pacific Islander	0										2						262	5	52	28	14	443
Hispanic	0										0						162	2	38	39	21	439
Caucasian/White	17	1	6	13	76	3	18	0	0	451	50	2	44	44	10	442	13080	7	52	31	10	444
Not Reported	0										0						1					
<b>Identified disability</b>																						
Yes	1										14	14	36	43	7	444	2370	2	32	41	25	437
No	16	1	6	13	81	2	13	0	0	452	39	0	46	44	10	442	11621	7	55	30	8	445
<b>Current LEP</b>																						
Yes	0										1						379	1	25	35	39	433
No	17	1	6	13	76	3	18	0	0	451	52	4	42	44	10	442	13612	6	52	32	10	444
<b>Economically disadvantaged</b>																						
Yes	10	0	0	8	80	2	20	0	0	449	36	3	47	42	8	443	5470	3	41	39	18	440
No	7	1	14	5	71	1	14	0	0	453	17	6	35	47	12	442	8521	9	57	27	7	446
<b>Migrant</b>																						
Yes	0										0						5	20	20	40	20	443
No	17	1	6	13	76	3	18	0	0	451	53	4	43	43	9	442	13986	6	51	32	11	444
<b>Gender</b>																						
Female	9	1	11	6	67	2	22	0	0	451	17	0	41	41	18	440	6929	6	49	33	12	443
Male	8	0	0	7	88	1	13	0	0	450	36	6	44	44	6	444	7061	7	53	30	10	444
Not Reported	0										0						1					
<b>Title 1A targeted program</b>																						
Yes	5	0	0	4	80	1	20	0	0	448	7	0	43	43	14	442	1888	1	32	44	23	437
No	12	1	8	9	75	2	17	0	0	452	46	4	43	43	9	442	12103	7	54	30	9	445
<b>Gifted/talented program</b>																						
Yes	0										0						266	30	65	5	1	457
No	17	1	6	13	76	3	18	0	0	451	53	4	43	43	9	442	13725	6	51	32	11	444

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

NOTE: Some achievement level results have been left blank because fewer than five (5) students were tested. N = Number

# SCIENCE AND TECHNOLOGY RESULTS

## (QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade: 4

SAU: MSAD 58

School: Stratton Elementary School

QUESTIONNAIRE ITEMS	School										SAU						State					
	Students in Each Category	E		M		P		D		Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score	Students in Each Category	E	M	P	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%		%	%	%	%	%		%	%	%	%	%	
<b>How much homework do you do on school nights?</b>																						
A. none	0										4	0	0	100	0	435	5	4	37	36	22	439
B. less than one hour	88	1	7	11	73	3	20	0	0	450	77	5	46	37	12	443	74	6	53	31	10	444
C. one to two hours	12	0	0	2	100	0	0	0	0	455	15	0	50	50	0	441	18	7	52	32	8	445
D. more than two hours	0										4	0	0	100	0	435	2	4	31	33	32	437
<b>How well do the questions that you have just been given on this MEA test match what you have learned in school about science?</b>																						
A. The questions on the test match what I have learned in science class.	24	1	25	2	50	1	25	0	0	454	9	0	40	40	20	438	24	9	53	28	10	446
B. They match some of what I have learned.	53	0	0	8	89	1	11	0	0	451	53	4	54	32	11	444	49	6	54	31	9	445
C. They match just a little of what I have learned.	24	0	0	3	75	1	25	0	0	448	26	7	21	71	0	441	21	4	47	36	13	442
D. There is no match.	0										11	0	50	33	17	440	6	2	35	37	25	438
<b>Which of the following best describes how you rate yourself as a student in science?</b>																						
A. very good	0										21	9	27	64	0	441	25	9	53	27	10	446
B. good	71	1	8	9	75	2	17	0	0	451	55	3	48	34	14	443	54	6	55	30	9	445
C. fair	24	0	0	3	75	1	25	0	0	448	23	0	42	50	8	442	19	3	43	40	15	441
D. poor	6	0	0	1	100	0	0	0	0	454	2	0	100	0	0	444	3	2	28	42	29	435
<b>How difficult was the science part of this test?</b>																						
A. harder than my regular schoolwork	29	0	0	3	60	2	40	0	0	446	27	0	29	64	7	440	22	5	45	35	15	442
B. about the same as my regular schoolwork	65	1	9	9	82	1	9	0	0	452	60	3	52	39	6	443	62	7	53	31	9	445
C. easier than my regular schoolwork	6	0	0	1	100	0	0	0	0	456	13	14	43	29	14	445	16	7	52	28	13	444
<b>How often do you have science classes?</b>																						
A. every day	41	0	0	5	71	2	29	0	0	448	9	0	60	40	0	444	24	7	48	33	12	444
B. a few times a week	59	1	10	8	80	1	10	0	0	452	32	12	53	35	0	449	53	7	54	31	9	445
C. once a week	0										15	0	25	50	25	436	9	6	46	33	15	442
D. a few times a month	0										43	0	39	48	13	440	14	5	50	31	14	443
<b>Which statement best describes how you learn science?</b>																						
A. I mostly read a textbook and answer questions, and/or take notes and do assignments. I use science kits for demonstrations and experiments.	0										6	0	0	67	33	432	25	5	48	34	13	443
B. I work in groups to design and conduct experiments.	50	0	0	5	63	3	38	0	0	446	43	4	48	43	4	445	27	4	46	37	13	442
C. I do a combination of A and B, but mostly A.	0										13	0	29	57	14	438	26	7	56	28	8	445
D. I do a combination of A and B, but mostly B.	50	1	13	7	88	0	0	0	0	454	38	5	50	35	10	443	22	9	55	26	9	446
<b>Optional school/SAU question</b>																						
A.	0										0											
B.	0										0											
C.	0										0											
D.	0										0											

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

N = Number